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Fall 2019

# FRSC 307-101: Crime Scene Investigation & Lab

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**FRSC 307: Crime Scene  
Investigation & Lab**  
***T 6:00-9:05pm (TIER 209)***  
***R 5:45-7:40pm (FMH308)***  
***Fall 2019 Course Syllabus***

[NJIT Academic Integrity Code](#): All Students should be aware that the Department of Chemistry & Environmental Science (CES) takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

## COURSE INFORMATION

**Course Description:** This course gives an overview of the cardinal principles and techniques of crime scene investigation, with an emphasis on a rigorous scientific approach. Students will be introduced to: crime scene documentation, sketches, and photography; specialized techniques for the recognition and enhancement of physical evidence; preparation and maintenance of case folders for records including notes, sketches, photographs, and contacts/communications; communication of results and preparation of formal reports; and ethics and bias in crime scene investigation. The primary aim of the course is to introduce students to scientific philosophy, integrity, CSI procedures, and the role of the crime scene investigator.

**Number of Credits:** 4

**Prerequisites:** FRSC 201

### Course-Section and Instructor

Course-Section	Instructor
FRSC 307-101	Dr. Kevin Parmelee
T 6:00-9:05pm (TIER 209)	Office: Tiernan 323B
Th 5:45-7:40pm (FMH 308)	Office Hours: By appointment
	email: parmskev@gmail.com

**Required Textbook:**

<b>Title</b>	Techniques of Crime Scene Investigation, 8 <sup>th</sup> ed.
<b>Author</b>	Barry Fisher & David Fisher
<b>Edition</b>	8
<b>Publisher</b>	CRC
<b>ISBN #</b>	978-1439810057

and additional readings as assigned.

**University-wide Withdrawal Date:** The last day to withdraw with a W is Monday, November 11, 2019. It will be strictly enforced.

**Learning Outcomes:** Upon completion of this course, students will:

- Apply crime scene procedures and techniques to reveal physical evidence.
- Use the appropriate techniques to document the crime scene (notes, sketches, 3D scans, photography and video).
- Recognize, enhance, document, collect, handle, and package physical evidence using field-specific techniques.
- Maintain chain of custody.
- Identify and describe common field tests for the presumptive identification and enhancement of different types of physical evidence.
- Reconstruct a crime scene, including basic bloodstain pattern analysis and shooting scene trajectory analysis.
- Organize management of a crime scene, including allocation of personnel, resources, and time.
- Code of ethics for CSI's.
- Articulate the necessity of ethics in forensics and CSI and the potential ethical problems.
- Evaluate the physical evidence for a criminal investigation in terms of its significance.
- Identify applications of scientific investigative methods when examining crime scenes and physical evidence.
- Describe how science is used in the criminal justice system.
- Be able to testify in a clear and unbiased manner as to your findings at a crime scene under both direct and cross examination

## **POLICIES**

**All CES students must familiarize themselves with, and adhere to, all official university-wide student policies. CES takes these policies very seriously and enforces them strictly.**

**Grading Policy:** The final grade in this course will be determined as follows:

<b>Lab safety and cleanliness</b>	10%
<b>Class Participation</b>	10%
<b>Lab exercises</b>	30%
<b>Midterm Exam</b>	20%
<b>Final Exam</b>	30%
<b>Extra Credit will be given for attending NJIAI, NEAFS, or EAS</b>	5% per conference

Your final letter grade in this course will be based on the following grading scale:

A	90-100	C	70-76
B+	87-89	D	60-69
B	80-86	F	<60
C+	77-79		

**Attendance Policy:** Attendance at classes will be recorded and is **mandatory**. Each class is a learning experience that cannot be replicated through simply “getting the notes.” After two unexcused absences, each subsequent absence will result in your class participation score being lowered by one percentage point. You are expected to read the relevant chapter and/or reading assignment prior to the lecture. Students who participate in lecture will receive points towards their class participation grade.

**Exams:** There will be one midterm exam held in class during the semester and one comprehensive final exam. The following exam periods are tentative and therefore possibly subject to change:

Midterm Exam	Oct 17, 2019
Final Exam Period	Dec 14-20, 2019

The final exam will test your knowledge of all the course material taught in the entire course.

**Makeup Exam Policy:** There will normally be **NO MAKE-UP QUIZZES OR EXAMS** during the semester. In the event that a student has a legitimate reason for missing a quiz or exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor’s note, police report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the CES Department Office/Instructor that the exam will be missed so that appropriate steps can be taken to make up the grade.

**Cellular Phones:** All cellular phones and other electronic devices must be switched off during all class times. Such devices must be turned in during exams.

## ADDITIONAL RESOURCES

**Accommodation of Disabilities:** Office of Accessibility Resources and Services (*formerly known as Disability Support Services*) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director at the Office of Accessibility Resources and Services at **973-596-5417** or via email at [lyles@njit.edu](mailto:lyles@njit.edu). The office is located in Fenster Hall Room 260. A Letter of Accommodation Eligibility from the Office of Accessibility Resources Services office authorizing your accommodations will be required.

For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Accessibility Resources and Services (OARS) website at:

- <http://www5.njit.edu/studentssuccess/disability-support-services/>

**Important Dates:**

Date	Day	Event
Sept 3	T	First Day of Classes
Sept 13	F	Last Day to Add/Drop Classes
Nov 11	M	Last Day to Withdraw
Nov 26	T	Thursday classes meet
Nov 27	W	Friday Classes meet
Nov 28-Dec 1	Th-Su	Thanksgiving recess
Dec 11	W	Last Day of Classes
Dec 12-13	Th-F	Reading Day
Dec 14-20	Sa-F	Final Exam Period

**Course Outline**

Week	Date	T	Assignment
1	Sep 3	Intro to CSI; Quality Assurance / ISO 17020; Lab check in	Sign lab safety contract; buy PPE; Ch 1
	Sep 5	First Officer at the Scene; The CSI; Specialized Personnel	Ch 2-4
2	Sep 10	Crime Scene Unit tour (Somerset Cnty Prosecutor's Ofc)	Ch 5
	Sep 12	Processing the Crime Scene	
3	Sep 17	Crime Scene Sketch; Note taking; Forensic Photography	Lab 1; Ch 6
	Sep 19	Establishing Identity	
4	Sep 24	Developing Latent Fingerprints	Lab 2; Ch 7
	Sep 26	Trace Evidence	
5	Oct 1	Trace evidence lab	Lab 3; Ch 8

	Oct 3	Blood, Forensic Biology, and DNA	
6	Oct 8	NJIAI conference ( <a href="http://www.njiai.org">www.njiai.org</a> ) Atlantic City, NJ	
	Oct 10	NJIAI conference	
7	Oct 15	Blood Spatter Lab Part I	Lab 4
	Oct 17	Midterm	
8	Oct 22	Blood Spatter Lab Part II	Lab 5; Ch 9
	Oct 24	Impression Evidence	
9	Oct 29	Footwear and Tire Impression Lab	Lab 6; Ch 10
	Oct 31	Firearms Examination	
10	Nov 5	Bullet Trajectory Lab	Lab 7
	Nov 7	Testifying on the stand; Ethics; and Professional Practice	
11	Nov 12	NEAFS conference ( <a href="http://www.neafs.org">www.neafs.org</a> ); Lancaster, PA	
	Nov 14	NEAFS conference	
12	Nov 19	EAS symposium ( <a href="http://www.easinc.org">www.easinc.org</a> ); Princeton, NJ	Ch 15
	Nov 21	Motor Vehicle Examination	
13	Nov 26	Vehicle Exam Lab (Meet in parking garage on Summit St.)	Lab 8
	Nov 28	Thanksgiving—no class	Ch 13
14	Dec 3	Mock Crime Scene	Ch 16
	Dec 5	Homicide Investigation	
15	Dec 10	Last day of class; Review for Final	Study for final
	TBD	Final Exam	

*Updated by David Fisher - Aug 30, 2019*  
*Department of Chemistry & Environmental Sciences*  
*Course Syllabus, Fall 2019*

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